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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,677	12/04/2003	Scott R. Janus	P17997	9064

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EXAMINER

SHIN, CHRISTOPHER B

ART UNIT	PAPER NUMBER
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2182

DATE MAILED: 02/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/728,677	JANUS, SCOTT R.	
	Examiner	Art Unit	
	Christopher B. Shin	2182	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 14-18 and 23-29 is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-12 & 19-22 is/are rejected.
- 7) ☒ Claim(s) 7 and 13 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>06162005 (1 sheet)</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Allowable Subject Matter

1. Claims 7 & 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
2. Claims 14-18 & 23-29 are allowable over the prior art of record.

Claim Rejections - 35 USC § 103

3. Claims 1-6, 8-12 & 19-22 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Peek (5,644,784).
 - a. Peek teaches a DMA system having a substantially identical basic functional teachings of the claimed limitations as follows:

Claims 1-6, 8-12, 19-22

Peek (5,644,784)

- Determining an address for a burst write of a command and arguments of the command based upon an argument count of the command
 - Feature of (400) burst write of (408, 409, 418, 420/414, 422/412, 424/410, 426) based upon an (410/424)
- In response to performing the burst write, writing the arguments and the command starting from the address determined based up the argument count
 - Feature of (400) burst write of (408, 409, 418, 420/414, 422/412, 424/410, 426) based upon an (410/424)
- Writing the arguments and the command comprises writing the arguments prior to writing the command/writing the command after writing the arguments
 - Feature of figures 6-7 where valid bits and address are written before control word (length count)

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- Writing and arguments and the command comprises writing the arguments in a reverse order results in a last argument of the command being written prior to a first argument of the command being written
 - Feature of columns 4-5, lines 64-4
- A burst read of status and any outputs of the command/reading the status prior to reading the any outputs
 - Feature of column 3, lines 37-39
- Receiving a plurality of arguments of a command during a burst write
 - Feature of (400) burst write of (408, 409, 418, 420/414, 422/412, 424/410, 426) based upon an (410/424)
- After receiving the plurality of arguments, receiving the command during the burst write
 - Feature of (400) burst write of (408, 409, 418, 420/414, 422/412, 424/410, 426) based upon an (410/424)
- Receiving the plurality of arguments in a reverse order in which a last argument of the command is received prior to receiving the first argument of the command
 - Feature of figures 6-7 where valid bits and address are written before control word (length count)
- Storing the plurality of arguments and command in contiguously writable registers
 - Feature of (418)
- Executing the command based upon the plurality of arguments in response to receiving the command
 - Feature of (400) burst write of (408, 409, 418, 420/414, 422/412, 424/410, 426) based upon an (410/424)
- Storing status and outputs resulting from executing the command in contiguously readable registers
 - Feature of column 3, lines 37-39

b. For the above reasons, as for the claims 1-6, 8-12 &19-22, the claimed invention (method/instructions) would have been anticipated by the teachings of the Peek reference. However, the Peek reference utilizes substantially the same as the claimed invention, but slightly different data types/labels from the claimed invention. One skilled in the art can easily recognize similarity between the data types used in the claimed system (i.e., arguments, command, argument count, status) and the Peek system (i.e., source/destination addresses, control word, length count, status bit), since the above peeks data types can be broadly

viewed/interpreted as arguments, commands, and argument counts. Therefore, it would have been obvious at the time the invention was made to one having ordinary skill in the art to come up with the claimed method/instructions from the teachings of the Peek reference, for the reasons stated above.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher B. Shin whose telephone number is 571-272-4159. The examiner can normally be reached on 6:30-5:00 M,Tu,Th,F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Huynh can be reached on 571-272-4147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Shin
Primary Examiner
Of 2182

February 2, 2006
cbs

